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## Instructions to Authors

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## Instructions to Authors

### A. General requirements

The *JOURNAL OF THE ARKANSAS ACADEMY OF SCIENCE* is published annually. It is the policy of the Arkansas Academy of Science that 1) at least one of the authors of a paper submitted for publication in the *JOURNAL* must be a member of Arkansas Academy of Science, 2) only papers presented at the annual meeting are eligible for publication, and 3) manuscript submission is due at the annual meeting. Manuscripts should be e-mailed to Dr. Ivan Still, the Managing Editor of the Journal (istill@atu.edu), or submitted to the *JOURNAL* website: <http://scholarworks.uark.edu/jaas/>, two days before the meeting. The Managing Editor will email an acknowledgement of the receipt of the manuscript before, or the day after the meeting. A hard copy should be handed to the editorial staff at the meeting.

After the meeting all correspondence regarding response to reviews etc. should be directed to the Managing Editor. Publication charges (\$50 per page) are payable when the corresponding author returns their response to the reviewers' comments. Publication charges must be sent to the Editor-in-Chief: Dr. Mostafa Hemmati, P.O. Box 1950, Russellville, AR 72811. Please note that the corresponding author will be responsible for the total publication cost of the paper and will submit one check for the entire remittance by the set deadline. If page charges are not received by the deadline, publication of the manuscript will occur in the following year's Journal volume (i.e. two years after the meeting at which the data was presented!) The check **must** contain the manuscript number (assigned prior to return of reviews). All manuscript processing, review and correspondence will be carried out electronically using e-mail. Thus, authors are requested to add the editors' e-mail addresses to their accepted senders' list to ensure that they receive all correspondence.

Original manuscripts should be submitted either as a **feature article** or a shorter **general note**. Original manuscripts should contain results of original research, embody sound principles of scientific investigation, and present data in a concise yet clear manner. Submitted manuscripts should not be previously published and not under consideration for publication elsewhere. The *JOURNAL* is willing to consider **review articles**. These should be authoritative descriptions of any subject within the scope of the Academy. Authors of articles and reviews must refrain

from inclusion of previous text and figures from previous reviews or manuscripts that may constitute a breach in copyright of the source journal. Reviews should include enough information from more up-to-date references to show advancement of the subject, relative to previously published reviews. Corresponding authors should identify into which classification their manuscript will fall.

For scientific style and format, the CBE Manual for Authors, Editors, and Publishers Sixth Edition, published by the Style Manual Committee, Council of Biology Editors, is a convenient and widely consulted guide for scientific writers and will be the authority for most style, format, and grammar decisions. Special attention should be given to grammar, consistency in tense, unambiguous reference of pronouns, and logically placed modifiers. To avoid potential rejection during editorial review, all prospective authors are strongly encouraged to submit their manuscripts to other qualified persons for a friendly review of clarity, brevity, grammar, and typographical errors before submitting the manuscript to the *JOURNAL*. Authors should rigorously check their manuscript to avoid accidental plagiarism, and text recycling. Authors should declare any and all relevant conflicts of interest on their manuscripts.

To expedite review, authors should provide the names and current e-mail address of at least three reviewers within their field, with whom they have not had a collaboration in the past 2 years. The authors may wish to provide a list of potential reviewers to be avoided due to conflicts of interest.

### Proposed timetable for manuscript processing

Please note: All manuscripts must be properly formatted PRIOR to submission.

In 2017, V. 71 of the *JOURNAL* will begin accepting manuscripts electronically via the *JOURNAL* website: <http://scholarworks.uark.edu/jaas/>. For all authors submitting via this method, the entire review and publication procedure will be handled via the server.

In this transition year, those authors who would prefer to use the email method, please e-mail your manuscript to the Managing Editor ([istill@atu.edu](mailto:istill@atu.edu)).

### For both direct submission and e-mail submissions:

Submit your manuscripts a minimum of 2 days prior to the annual meeting.

## Instructions to Authors

End of May: Initial editorial review. Manuscripts sent to reviewers.

End of July: All reviews received. Editorial decisions on made on reviewed manuscripts. Manuscripts returned to authors for response to reviewers' critiques. Please email the Managing Editor if you fail to receive your review by the 31st July.

End of August: Authors return revised manuscripts to Managing Editor, or to the *JOURNAL* website, 28 days after editorial decision/reviewers critiques were sent. Corresponding author submits publication charges to the Editor-in-Chief (mhemmati@atu.edu): Mailing address: Mostafa Hemmati, P.O. Box 1950, Russellville, AR 72811. The Managing Editor will send an email reminder approximately 1 week prior to the final due date.

The prompt return of revised manuscripts and payment of publication costs is critical for processing of the *JOURNAL* by the *JOURNAL* staff. If the corresponding author will be unable to attend to the manuscript within the framework of this schedule, then it is the responsibility of the corresponding author to make arrangements with a coauthor to handle the manuscript. NB. The corresponding author will be responsible for submitting the total publication cost of the paper by August 31st. FAILURE TO PAY the publication charges by the deadline will prevent processing of the manuscript, and the manuscript will be added to the manuscripts received from the following year's meeting.

### Preparation of the Manuscript

#### A. General considerations

Format the manuscript as a published paper. If you are unfamiliar with the Journal, please access last year's journal at <http://libinfo.uark.edu/aas/> to familiarize yourself with the layout.

1. Use Microsoft Word 2007 or higher for preparation of the document and the file should be saved as a Word Document.
2. The text should be single spaced with Top and Bottom margins set at 0.9" Left and Right margins, 0.6". Except for the Title section, the manuscript must be submitted in two column format and the distance between columns should be 0.5". This can be performed in Word 2007 by clicking on "Page layout" on the Toolbar and then "Columns" from the drop-down menu. Then select "two" (columns).
3. Indent paragraphs and subheadings 0.25".

4. Use 11 point font in Times New Roman for text. Fonts for the rest of the manuscript must be
  - a) Title: 14 point, bold, centered, followed by a single 12 point blank line.
  - b) Authors' names: 12 point, normal, centered. Single line spaced. Separate last author line from authors' address by a single 10 point blank line.
  - c) Authors' addresses: 10 point, italic, centered. Single line spaced. Separate last author line from corresponding author's email by a single 10 pt blank line.
  - d) Corresponding authors email: 10 point, normal, left alignment.
  - e) Running title: 10 point, normal, left alignment.
  - f) Main text: 11 point, justified left and right.
  - g) Figure captions: 9 point, normal.
  - h) Table captions: 11 point normal.
  - i) Section headings: 11 point, bold, flush left on a separate line, then insert an 11 pt line space. Section headings are not numbered.
  - j) Subheadings: 11 point, bold, italic and flush left on a separate line.
6. Set words in italics that are to be printed in italics (e.g., scientific names).
7. In scientific text, **Arabic numerals** should be used in preference to words when the number designates anything that can be counted or measured: 3 hypotheses, 7 samples, 20 milligrams. However, numerals are not used to begin a sentence; spell out the number, reword the sentence, or join it to a previous sentence. Also, 2 numeric expressions should not be placed next to each other in a sentence. The pronoun "one" is always spelled out.
8. A **feature article** is 2 or more pages in length. Most **feature articles** should include the following sections: Abstract, Introduction, Materials and Methods, Results, Discussion, Conclusions, Acknowledgments, and Literature Cited.
9. A **general note** is generally shorter, usually 1 to 2 pages and rarely utilizes subheadings. A note should have the title at the top of the first page with the body of the paper following. Abstracts are not used for general notes.
10. A **review article** should contain a short abstract followed by the body of the paper. The article may be divided into sections if appropriate, and a final summary or concluding paragraph should be included.

## Instructions to Authors

### Title of a Paper (14 pt, bold, centered)

A.E. Firstauthor<sup>1\*</sup>, B.F. Second<sup>1</sup>, C.G. Third<sup>2</sup>, and D.H. Lastauthor<sup>1</sup> (12 point font, normal, centered)

<sup>1</sup>*Department of Biology, Henderson State University, Arkadelphia, AR 71999*

<sup>2</sup>*Arkansas Game and Fish Commission, 915 E. Sevier Street, Benton, AR 72015 (10 point font, italic, centered)*

\*Correspondence: Email address of the corresponding author (10 point, normal, left alignment)

Running title: (no more than 95 characters and spaces) (10 point, normal, left alignment)

Figure 1. Layout of the title section for a submitted manuscript.

## B. Specific considerations

### 1. Title section

(see Fig. 1 above for layout).

- i. It is important that the title be short, but informative. If specialized acronyms or abbreviations are used, the name/term should be first indicated in full followed by the short form/acronym.
- ii. Names of all authors and their complete mailing addresses should be added under the Title. Authors names should be in the form "A.M. Scientist", e.g. I.H. Still. Indicate which author is the corresponding author by an asterisk, and then indicate that author's email address on a separate line (see A.4 for format.)
- iii. Please include a Short Informative **Running title** (not to exceed 95 characters and spaces) that the Managing editor can insert in the header of each odd numbered page.
- iv. Insert a single 10pt blank line after the "Running Title" and add a Continuous section break.

### 2. Abstract

**An abstract** summarizing in concrete terms the methods, findings, and implications discussed in the body of the paper must accompany a **feature article** (or a **review article**). That abstract should be completely self-explanatory. A short summary abstract should also be included for any review article. Please review your title and abstract carefully to make sure they convey your essential points succinctly and clearly.

### 3. Introduction

An appropriate sized introduction should be included that succinctly sets the background and objectives of the research.

### 4. Materials and Methods

Sufficient details should be included for readers to repeat the experiment. Where possible reference any standard methods, or methods that have been used in previously published papers. Where kits have been used, methods are not required: include the manufacturer's name and location in brackets e.g. "RNA was prepared using the RNeasy Plus Micro Kit (Qiagen, USA)."

4. **Tables and figures** (line drawings, graphs, or black and white photographs) should not repeat data contained in the text. Tables, figures, graphs, pictures, etc. have to be inserted into the manuscript with "text wrapping" set as "top and bottom" (not "in line with text"). Figures, tables, graphs and pictures can occupy one column (3.4" wide) or a maximum of two columns wide (7.3"). In the event that a table, a figure, or a photograph requires larger space than a single column, the two column format should be ended and the Table/figure should be placed immediately afterward. The two column format should continue immediately after the Table/figure. To save space, where possible place Tables/Figures at the top or bottom of the column/page.

Tables and figures must be numbered, and should have titles and legends containing sufficient detail to make them easily understood. Allow two 9 pt line spaces above and below figures/tables. Please note that Figure and Table captions should be placed in the body of the manuscript text AND NOT in a text box.

- i. **Tables:** A short caption in 11 point normal should be included. Insert a solid 1.5 pt line below the caption and at the bottom of the table. Within tables place a 0.75pt line under table headings or other divisions. Should the table continue to another page, do not place a line at the bottom of

## Instructions to Authors

the table. On the next page, place the heading again with a 0.75pt line below, then a 1.5 pt line at the start of the table on the continued page. Tables can be inserted as Tables from Excel, but should not be inserted as pictures from Powerpoint, Photoshop etc., or from a specialized program.

- ii. **Figures:** A short caption should be written under each figure in 9 point, normal. Figure 2 shows an example for the format of a figure inserted into the manuscript. All figures should be created with applications that are capable of preparing high-resolution PhotoShop compatible files. The figure should be appropriately sized and cropped to fit into either one or two columns. Figures should be inserted as JPEG, TIFF images or PhotoShop compatible files. While the Journal is printed in black and white, we encourage the inclusion of color figures and photographs that can be viewed in the online version. Please note that the figures directly imported from PowerPoint frequently show poor color, font and resolution issues. Figures generated in Powerpoint should be converted to a high resolution TIFF or JPEG file (see your software user's manual for details).

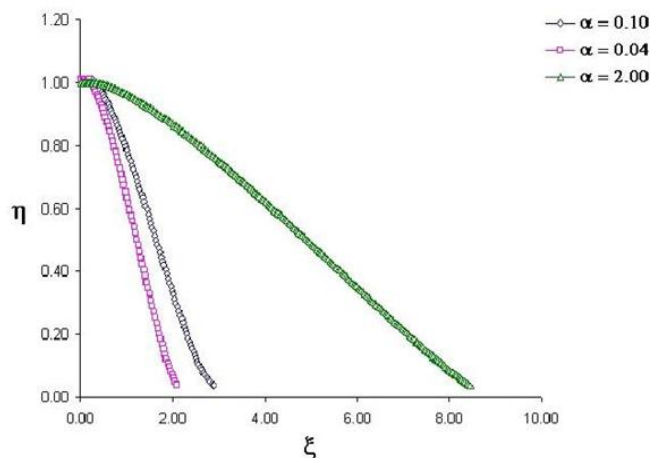


Figure 2. Electric field,  $\eta$ , as a function of position  $\xi$ , within the sheath region for three different wave speeds,  $\alpha$ .

### 5. Chemical and mathematical usage

- i. The Journal recommends the use of the International System of Units (SI). The **metric system of measurements** and **mass** must be employed. **Grams** and **Kilograms** are units of **mass** not weight. Non-SI distance measurements are permitted in parentheses.
- ii. Numerical data should be reported with the number of significant figures that reflects the

magnitude of experimental uncertainty.

- iii. Chemical equations, structural formulas and mathematical equations should be placed between successive lines of text. Equation numbers must be in parentheses and placed flush with right-hand margin of the column.

### 6. Deposition of materials and sequences in publicly available domains

Cataloguing and deposition of biological specimens into collections is expected. Publication of manuscripts will be contingent on a declaration that database accession numbers and/or voucher specimens will be made available to interested researchers. Where possible, collector and voucher number for each specimen should be stated in the Results section. The location of the collection should be stated in the Methods section. This will facilitate easy access should another researcher wish to obtain and examine the specimen in question.

### 7. Literature Cited

- i. Authors should use the Name – Year format as illustrated in *The CBE Manual for Authors, Editors, and Publishers* and as shown below. The *JOURNAL* will deviate from the form given in the *CBE Manual* only in regard to placement of authors' initials and abbreviation of journal titles. Initials for second and following authors will continue to be placed before the author's surname. Note that authors' names are in bold, single spacing occurs after periods. If a citation has 9 authors or more, write out the first 7 and append with *et al.* in the Literature Cited section. **Journal titles should be written in full.** Formats for a journal article and a book are shown below along with examples.
  - ii. Please note how the literature is "cited in text as", i.e. in the introduction, results etc. In general, cite in text by "first author et al." followed by publication date. **DO NOT USE NUMBERS, etc.** Also note that in the Literature Cited section, references should be single line spaced, justified with second and following lines indented 0.25". Column break a reference in Literature Cited that runs into the next column so that the entire reference is together. Insert a "Next Page" Section break at the end of the Literature cited section.
- Accuracy in referencing current literature is paramount. Authors are encouraged to use a reference databasing system such as Reference

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Manager or Endnote to enhance accurate citation. Do not cite abstracts and oral, unpublished presentations. Unnecessary referencing of the authors own work is discouraged; where possible the most recent reference should be quoted and appended with “*and references therein*”.

### General form:

**Author(s).** Year. Article Title. Journal title volume number(issue number):inclusive pages.

**Author(s) [or editor(s)].** Year. Title of Book. Publisher name (Place of publication). Number of pages.

### Specific examples:

#### Standard Journal Article

**Davis DH.** 1993. Rhythmic activity in the short-tailed vole, *Microtus*. *Journal of Animal Ecology* 2:232-8  
Cited in text as: (Davis 1993)

**Steiner U, JE Klein, and LJ Fletters.** 1992. Complete wetting from polymer mixtures. *Science* 258(5080):1122-9.  
Cited in text as: (Steiner *et al.* 1992)

**Zheng YF and JYS Luh.** 1989. Optimal load distribution for two industrial robots handling a single object. *ASME Journal of Dynamic System, Measurement, and Control* 111:232-7.  
Cited in text as: (Zheng and Luh 1989)

#### In press articles

**Author(s).** Expected publication Year. Article Title. Journal title *in press*.  
Cited in text as: (First author *et al. in press*)

**Kulawiec M, A Safina, MM Desouki, IH Still, S-I Matsui, A Bakin, and KK Singh.** 2008. Tumorigenic transformation of human breast epithelial cells induced by mitochondrial DNA depletion. *Cancer Biology & Therapy in press*.  
Cited in text as: (Kulawiec *et al. in press*)

#### Books, Pamphlets, and Brochures

**Box GEP, WG Hunter, and JS Hunter.** 1978. Statistics for experiments. J Wiley (NY). 653 p.  
Cited in text as: (Box *et al.* 1978)

**Gilman AG, TW Rall, AS Nies, and P Taylor, eds.** 1990. The pharmacological basis of therapeutics. 8<sup>th</sup> ed. Pergamon (NY). 1811 p.  
Cited in text as: (Gilman et al. 1990)

**Engelberger JF.** 1989. Robotics in Service. MIT Press Cambridge (MA). 65p.  
Cited in text as: (Engelberger 1989)

#### Book Chapter or Other Part with Separate Title but Same Author(s) – General format is given first.

**Author(s) or editor(s).** Year. Title of book. Publisher's name (Place of publication). Kind of part and its numeration, title of part; pages of part.

**Hebel R and MW Stromberg.** 1987. Anatomy of the laboratory cat. Williams & Wilkins (Baltimore, MA). Part D, Nervous system; p 55-65.

**Singleton S and BC Bennett.** 1997. Handbook of microbiology. 2<sup>nd</sup> ed. Emmaus (Rodale, PA). Chapter 5, Engineering plasmids; p 285-96.

#### Book Chapter or Other Part with Different Authors – General format is given first.

**Author(s) of the part.** Year. Title of the part. *In:* author(s) or editor(s) of the book. Title of the book. Publisher (Place of publication). Pages of the part.

**Weins JA.** 1996. Wildlife in patchy environments: Metapopulations, mosaics, and management. *In:* McCullough DR, editor. Metapopulations and wildlife conservation. Island Press (Washington, DC). p 506.

**Johnson RC and RL Smith.** 1985. Evaluation of techniques for assessment of mammal populations in Wisconsin. *In:* Scott Jr NJ, editor. Mammal communities. 2<sup>nd</sup> ed. Pergamon (NY). p 122-30.

#### Dissertations and Theses – General format is given first.

**Author.** Date of degree. Title [type of publication – dissertation or thesis]. Place of institution: name of institution granting the degree. Total number of pages. Availability statement.

The availability statement includes information about where the document can be found or borrowed if the source is not the institution's own library.

**Stevens WB.** 2004. An ecotoxilogical analysis of

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stream water in Arkansas [dissertation]. State University (AR): Arkansas State University. 159 p.

**Millett PC.** 2003. Computer modeling of the tornado-structure interaction: Investigation of structural loading on a cubic building [MS thesis]. Fayetteville (AR): University of Arkansas. 176 p. Available from: University of Arkansas Microfilms, Little Rock, AR; AAD74-23.

**Published Conference Proceedings** – General format is given first.

**Author(s)/Editor(s).** Date of publication. Title of publication or conference. Name of conference (if not given in the 2<sup>nd</sup> element); inclusive dates of the conference; place of the conference. Place of publication: publisher. Total number of pages.

**Vivian VL, ed.** 1995. Symposium on Nonhuman Primate Models for AIDS; 1994 June 10-15; San Diego, CA. Sacramento (CA): Grune & Stratton. 216 p.

**Scientific and Technical Reports** – General format is given first.

**Author(s)** (Performing organization). Date of publication. Title. Type report and dates of work. Place of publication: publisher or sponsoring organization. Report number. Contract number. Total number of pages. Availability statement if different from publisher or sponsoring organization. (Availability statement may be an internet address for government documents.)

**Harris JL and ME Gordon** (Department of Biological Sciences, University of Mississippi, Oxford MS). 1988. Status survey of *Lampsilis powelli* (Lea, 1852). Final report 1 Aug 86 – 31 Dec 87. Jackson (MS): US Fish and Wildlife Service, Office of Endangered Species. Report nr USFW-OES-88-0228. Contract nr USFW-86-0228. 44+ p.

**Electronic Journal Articles and Electronic Books** should be cited as standard journal articles and books except add an availability statement and date of accession following the page(s):  
Available at: [www.usfw.gov/ozarkstreams](http://www.usfw.gov/ozarkstreams). Accessed 2004 Nov 29.

### **Online resources**

Citation depends on the requirement of the particular

website. Otherwise use the “electronic journal article” format.

**US Geological Survey (USGS).** 1979. Drainage areas of streams in Arkansas in the Ouachita River Basin. Open file report. Little Rock (AR): USGS. 87 p. <[www.usgs.gov/ouachita](http://www.usgs.gov/ouachita)> Accessed on 2 Dec 2005.

Cited in text as: (USGS 1979)

### **Multiple Citations are Cited in text as:**

(Harris and Gordon 1988; Steiner et al. 1992; Johnson 2006).

## **8. Submission of Obituaries and In Memoriam**

The Executive Committee and the Journal of the Arkansas Academy of Science welcome the opportunity to pay appropriate professional honor to our departed Academy colleagues who have a significant history of service and support for the Academy and Journal. The editorial staff will consider obituaries for former executive committee members to be included in the Journal. Additional obituaries not meeting these criteria will be forwarded to be posted on the Academy website. We would request that paid up members of the Academy that wish to write an obituary provide a one to two page professional description of the scientist's life that should include details of his/her contribution to the Academy and publication record. The format should follow the two column format and 11pt Times New Roman font. A color or black-and-white photograph to fit in one column should also be provided.

## **REVIEW PROCEDURE**

Evaluation of a paper submitted to the *JOURNAL* begins with critical reading by the Managing Editor. The manuscript is then submitted to referees for critical review for scientific content, originality and clarity of presentation. To expedite review, authors should provide, in a cover letter, the names and current e-mail address of at least three reviewers within the appropriate field, with whom they have not had a collaboration in the past two years. Potential reviewers that the authors wish to avoid due to other conflicts of interest can also be provided. Attention to the preceding paragraphs will also facilitate the review process. Reviews will be returned to the author together with a judgement regarding the acceptability of the manuscript for publication in the *JOURNAL*.

## Instructions to Authors

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The authors will be requested to revise the manuscript where necessary. Time limits for submission of the manuscript and publication charges will be finalized in the accompanying letter from the Managing Editor (see "Proposed timetable for manuscript processing"). The authors will then be asked to return the revised manuscript, together with a cover letter detailing their responses to the reviewers' comments and changes made as a result. The corresponding author will be responsible for submitting the total publication cost of the paper to the Editor-in-Chief, when the revised manuscript is sent to the Managing Editor. Failure to pay the publication charges in a timely manner will prevent processing of the manuscript. If the time limits are not met, the paper will be considered withdrawn by the author. Please note that this revised manuscript will be the manuscript that will enter into the bound journal. Thus, authors should carefully read for errors and omissions so ensure accurate publication. A page charge will be billed to the author of errata. All final decisions concerning acceptance or rejection of a manuscript are made by the Managing Editor (Ivan H. Still) and/or the Editor-in-Chief (Mostafa Hemmati).

Please note that all manuscript processing, review and correspondence will be carried out electronically via the *JOURNAL* web site or via e-mail. Thus, authors are requested to add the e-mail addresses of the editors (istill@atu.edu and mhemmati@atu.edu), and the *JOURNAL* email address (jarksci@gmail.com) to their accepted senders' list to ensure that they receive all correspondence.

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